Diapir Field Lease Offering (Sale 87)

Public Hearing

Barrow

1983

1	PUBLIC HEARING			
2	ON			
3	ON			
4	DRAFT ENVIRONMENTAL IMPACT STATEMENT			
5	FOR THE			
6	TOR THE			
7	DIAPIR FIELD LEASE OFFERING (JUNE 1984)			
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11	PANEL MEMBERS:			
12	ROBERT BROCK Regional Supervisor, Leasing & Environment Office, MMS			
13	RAY EMERSON Environmental Assessment			
14	Section, Leasing & Environment Office, MMS			
15	ROD SMITH Regional Supervisor, Field			
16	Operations Office, MMS			
17	JOHN MORRISON U.S. Fish and Wildlife Service			
18	* * *			
19				
20	The panel met pursuant to notice at 7:30 p.m., October			
21	24, 1983, at the Assembly Chambers, North Slope Borough			
22	Building, Barrow, Alaska, Mr. Robert Brock presiding.			
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This is to certify that the attached proceedings before a panel convened to hear public testimony on the Draft Environmental Impact Statement for the Diapir Field Lease Offering (June 1984), taken at the Assembly Chambers, North Slope Borough Building, Barrow, Alaska, beginning at 7:30 p.m., October 24, 1983, were had as therein appears, and that this is the original transcript thereof. Official Reporter Transcribed October 31, 1983



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7:30 p.m.

MR. BROCK: Good evening ladies and gentlemen, the hearing will now start. I apologize for the delay, we were having a little problem trying to get the translating equipment and whatnot, so I do apologize for that delay. Welcome to this hearing. I'm Robert Brock from the Minerals Management Service in Anchorage, Alaska. I'm the Regional Supervisor for Leasing and Environment in the Alaska OCS Region. I have been designated to chair this hearing. The purpose of this hearing is to receive your comments and suggestions on the Draft Environmental Impact Statement for the Diapir Field Lease Offering scheduled for June, 1984. This document was prepared by the Minerals Management Service to fully evaluate the potential environmental effects of the oil and gas leasing activities associated with the lease offering. Further hearings will be conducted today in Barrow and Thursday in Anchorage on this Draft EIS. official reporter, to make a verbatim transcript of the hearing, is seated on my far right. Everything that is spoken while the hearing is in session will be recorded. To assure a complete and accurate record of the hearing, it is necessary that only one person speak at a time and everyone else remain as quiet as possible. Copies of the transcript can be available through Akulaw Court Reporting.



can make arrangements with the court reporter today, or contact Akulaw in Anchorage, not through the Minerals Management Service, we do not have copies of the transcript. This is not an adversary proceeding and no one will be placed under oath; however, presentations should be relevant and supported by pertinent data. Speakers will not be questioned unless a member of the hearing panel wishes to clarify facts or to obtain additional information. The members of the panel are not here to answer questions but to receive information and not to exchange views. Panel members are present to obtain as complete an understanding as possible of all views of all interested parties. Speakers will be called in the order they registered. If you have not registered, please register with Laura Yoesting over here in this corner. When you speak, please begin your remarks with your name, address, and whom you represent, and please spell your name. If you have prepared testimony, please give one copy to the reporter for her assistance, but your remarks will be recorded verbatim whether or not you have prepared testimony. Any additional material you present to us will be marked as an exhibit and entered into the record. Each oral presentation should be limited to 10 minutes. We will accept written comments from anybody not wishing to testify, or in addition to what you've testified. send those comments to the Minerals Management Service,



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Box 101159, that's 1-0-1-1-5-9, Anchorage, Alaska 99510. The comment period for this Draft EIS closes November 10th. Any information or comments received prior to that date will be given the same consideration as any oral testimony given here tonight. The panel members, besides myself tonight, are, on my left, John Morrison from the U.S. Fish and Wildlife Service in Anchorage; on my far right is Rod Smith, Regional Supervisor for Field Operations from the Minerals Management Service, and on my immediate right, Ray Emerson, the Unit Chief for the Arctic Environmental Assessment Section. The translator is James, and I don't know what your last name is, James.

MR. NAGEAK: Nageak.

MR. BROCK: And he will be translating the translation from Inupiat to English. We will not have time to translate all of the testimony from English to Inupiat. Okay, that concludes my remarks and the first speaker we have is Jean Numnik.

(The above opening statement translated into Inupiat by Mr. Nageak.)

STATEMENT OF JEAN NUMNIK, INDIVIDUAL, BARROW, ALASKA MR. NUMNIK: (Statement of Mr. Numnik in Inupiat and translated as follows by Mr. Nageak.)

MR. NAGEAK: A kind of synopsis of what he says is, I want to thank you for coming -- he wants to thank you for



coming here. The things that he talked about are that we have a better understanding sometimes if we can see maps of the areas being discussed here this evening. He knows that when we just listen to words and we don't have anything to point at, it makes it a little bit harder for a lot of us to understand what is going on. His understanding is that this oil development that's talked about here today, people from the Lower 48 came up and started talking about there will be some exploration in oilfields up here while they were still young boys. And so it is from Kaktovik in the east and Point Hope in the west we will have oil exploration. And one of the things that he mentioned was that the animals that we have, we get them when the ice condition\$ are right and when the open water is right. And we get the migratory animals, animals that migrate up this way when the ice conditions are such that it is good for them to travel. And he wants -- he knows it's pretty hard to speak first and he was the first one to speak so it was pretty hard for him to get the words out, but he knows that there were people talking and sometimes when other people talk then we will begin to exchange ideas or express ourselves that way. So he wants to thank you for the opportunity. MR. BROCK: Did we get an address for him?



MR. BROCK: Barrow, okay.

MS. YOESTING:

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No, just Barrow.

MS. NOBLE: I do have a map of the lease sale area I brought to put up so we could see the area we're talking about. I think the maps distributed are small and kind of hard to read.

MR. BROCK: That would be fine. Thank you, I normally carry a map with me but I went off and forgot it. The second testifier is Laurie Kingit.

MR. NAGEAK: How do you want to do this, let him go all the way or do you want me to....

MR. BROCK: If you want to summarize it, that's fine, or if you want to stop in between, that might be a little better in case any questions come up.

STATEMENT OF LAURIE KINGIT, INDIVIDUAL, POINT HOPE

MR. KINGIT: (Statement of Mr. Kingit in Inupiat and translated as follows by Mr. Nageak.)

MR. NAGEAK: He wants to thank you for the opportunity to speak. His name is Laurie Kingit, he was born in Point Hope in 1909 and he has lived at Point Hope the 74 years that he has been on this earth. The concern that he has in the oil exploration that's happening at Prudhoe Bay and other areas, exploration on land and sea -- he's concerned especially about the offshore drilling, the effect that would have -- that an oil spill would have on the animals of the area, especially the birds. When he was a boy he -- I guess in the summertime some of the oil from the animals



collects in an area and he has seen a bird landing in that puddle of oil and has seen that the bird could not take off and it finally died as an effect of the oil that was on it. And he has seen a specimen of crude oil, he has taken a piece of the crude oil in his hand and he knows that it sticks to your fingers, not only a specimen from the Prudhoe Bay area but a specimen from the Kenai oilfields down there. And he knows that crude oil would have the same effect as the oil that he has observed when he was a boy. understanding, the muktuk of the whale has some area where it's rough and there are areas where it's smooth, so undoubtedly he's thinking that it probably would not stick on there but in an area where it's rough, especially around the blowhole, he knows that the oil would stick to those And so that's what he's really concerned about, that areas. the animals that we have, seals, polar bears -- his idea, you know, that animals will be effected through an oil This is his understanding through his life. Another concern of his is he has seen rigs, and the rigs have posts or anchors that they put down into the ground, and if they do the same thing in the ocean, he knows the ice conditions, he has seen ice move and he has seen ice pile up, ice that is four feet thick, you know, he has seen just piling up, just keep piling up, and if it piles up where it's anchored, that's one of his concerns -- that is, if



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you have a platform out there on the ocean the effect of the piling up of the ice would eventually lift the platform, lift it off the anchorage. So that's a possibility that is a concern of his.

He wants to -- he said it's always good to speak your mind, and he's talking to the people here, and he wants to thank you and also if both sides understood each other it would help the process and there would be better understanding of what is going on; you tell them what's going on and they tell you what's on their minds, that way we can help each other to understand the situation.

MR. KINGIT: Thank you.

MR. BROCK: Thank you, sir. Our next speaker is Sam Taalak, Mayor of Nuiqsut.

STATEMENT OF SAM TAALAK, MAYOR, NUIQSUT, ALASKA

MR. TAALAK: I will be very, very brief, if I can.

First I would like to admire Ms. Noble managed to condense your book to about eight pages. That kind of language we can understand. I would like to insert into the record of the hearing, Ms. Noble's condensation. There is only one avenue that I would like to speak of at this moment. I would like to insert into the record a September 1983 publication of Arctic Policy Review. We got a question asked by a lot of people reading this article. It's a question of can an oil spill be controlled in the Arctic? I don't know



whether you're aware of that publication or not but it tells very, very briefly what the oil industry can do in controlling an oil spill of a small scale in an area as wide as 100 yards square. Now, if they cannot even control an area, what can they do with the entire Beaufort Sea. In nature ice moves by the mighty hand of God. You have no way of controlling it, you are pitting yourself -- you taught me how to be a Christian and here you are, in an oil-glut world, you tell me you're going to conquer nature itself. Now, I want to get down to the basic facts about your report that says that the type of ice equipment you want to employ in the Beaufort Sea, as compared to the Canadian side which is a no-movement world -- you are talking about ice movement, evil, the evil power of ice; ice movement, you have never seen it and until you have seen it you won't believe it. A super tanker, nuclear tanker, could not even move through three feet of ice. We had one sitting here and it got to be a laughingstock, the pride of the United States of America. One of the biggest nuclear ice breakers they had created. Now, that's the type of equipment that you want to use to fight nature and to get the oil out of the I cannot even begin to declare to you people Beaufort Sea. that the systems you have come up with, the theories you have come up with, look pretty good on paper, but you pit yourself against the Almighty and you haven't got a chance



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in the world, in this ice world we got up here. We know how to respect it because we lived in it for 5,000 - 10,000 years. You haven't! Yet you are going to proceed to conquer something that God has made. But until you can come up with single super tanker that will control all the ice, I think that you should have Alternative No. III, or no sale until you can correct -- until you can clearly state you have conquered nature itself. Thank you.

MR. BROCK: Thank you, sir.

MR. TAALAK: I will be back.

MR. BROCK: Heather Noble.

STATEMENT OF HEATHER NOBLE, INDIVIDUAL, BARROW, ALASKA

MS. NOBLE: I will be submitting written comments after the hearing and before the November 10th deadline. Basically tonight I just want to testify for the benefit of some of the people in the audience here tonight who haven't been filled in about a lot of the details of the sale. And I've asked Mr. Nageak to translate into Inupiat.

MR. BROCK: Are you representing yourself?

MS. NOBLE: Right now I'm basically informing the public about what is happening with this sale. We're talking tonight about a Draft Environmental Impact Statement that is supposed to provide enough information so that someone from the Department of Interior can decide whether to hold the sale and how to hold the sale. And because the Draft



Environmental Impact Statement is going to be used that way it's important that it is complete and that it is accurate. It's important that the Draft Environmental Impact Statement tell the people of the Department of Interior what is going to happen if this lease sale goes through. One thing that the DEIS does is that it talks about alternatives. ferent ways of holding the sale. And two of the alternatives that it talks about is to not lease two big areas, the two big areas there in the red up on the map on the wall. So in the Draft Environmental Impact Statement people are considering that they might want to not lease those two One of those areas is near Barrow and one of those areas is near Kaktovik. And people here tonight can talk about how they feel about those alternatives. People have already talked about the oil spills tonight, the Draft EIS talks about ice and how ice movement might cause oil spills. The Draft Environmental Impact Statement estimates that there will be seven oil spills from this lease sale. Draft EIS also talks about what would happen to that oil after it is spilled. It says that oil that is spilled in the wintertime will be frozen into the ice and can't be cleaned up until springtime; the oil companies can't clean it up until springtime. And the Draft EIS talks about where the oil would go at breakup, when the ice starts breaking up. And one place that it might go is into the



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lead where the whales are migrating. The Draft EIS estimates that there is a 50% chance that oil will get in the lead while the whales are migrating. Now, let me explain what a 50% chance is; 50% chance means that it's just as likely that it will get there while the whales are migrating as that it won't get there. The Draft EIS talks about what will happen to whales if they swim into an area where there's an oil spill. They don't think the whales will be hurt too much by the oil. They think that although whale skins are sensitive, that they wouldn't be hurt for very long. They say that although the whales might get oil in their baleen that the baleen would get cleaned pretty They don't think that whales would be hurt by quickly. swallowing oil. Other animals would also be hurt by the oil. Seals would be hurt because they would get it on their fur and might die of cold. But an oil spill would only be on one part of the coast and seals are all over so not all of the seals would be killed. Oil spills would also kill But the fish are all over, just like the seals. Laurie already talked about how oil can kill birds. the Draft EIS admits that oil would kill a lot of birds. But the DEIS says the birds are all over the place and the oil would only be in one area. And so not all the birds on the North Slope would be killed. If there were oil development in this area there would also be a lot of noise and



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traffic and drilling and helicopters and boats and all sorts of things going on. All this activity would disturb the animals. The Draft Environmental Impact Statement says that they're not sure whether whales would be hurt by the noise.

(The above comments by Ms. Noble were translated sentence by sentence into Inupiat by Mr. Nageak.)

MR. BROCK: Are you going to be finished in a few minutes? You have gone over your 10 minutes.

MS. NOBLE: In a little while.

MR. BROCK: Try to keep it to a few more minutes, please.

MS. NOBLE: They don't know if whales are affected by noise. Seals and birds are both disturbed by noise. But they don't think that there will be a lot fewer seals or birds because of the noise and the activity. They passed out maps showing where they think the pipelines might go to get the oil out of this lease sale land. And the pipelines might affect the caribou if the caribou didn't want to cross the pipelines. One of the pipelines might go over towards Kaktovik into the area where the Porcupine caribou herd is. And there might be a pipeline along the coast from Prudhoe Bay over to Point Barrow. And another pipeline might go across the NPRA south of Barrow and south of Nuiqsut. And that pipeline might affect the Western



Arctic caribou herd. The Draft EIS also talks about subsistence. And the Draft Environmental Impact Statement admits that any changes to whaling would be a major impact on people's subsistence.

(The above comments by Ms. Noble translated sentence by sentence into Inupiat by Mr. Nageak.)

MR. BROCK: Excuse me, I'm afraid that to be fair to everybody we're going to have to stop this and we'll be glad to pick you up at the end and continue....

MS. NOBLE: Well, it isn't going to do anybody.....

MR. BROCK: We're trying to hold our time to 10 minutes for everybody, and the people on the radio said that if we would take about a five-minute break they thought they could have us back on the air. So let's take a five-minute break and meet back and we'll pick up with the next speaker, and we'd like to have you come back again. Thank you.

(Off record.)

MR. BROCK: Let's resume the hearing. And I would like to emphasize again that we'd like to have you hold your testimony to 10 minutes. And to make sure, since this is your hearing and a chance to express your views on this DEIS -- to make sure that everybody has that time to do it, we won't be able to translate it from English back into Inupiat, because the idea of the hearing is to make sure that you get your views across to the reporter and the panel



And we want to make sure that that takes place tonight. So we do want to limit the translating into English. James, do you want to translate? Our translator's asleep.

MR. NAGEAK: No, I just took you at your word.

MR. BROCK: I'm sorry about that.

(Mr. Brock's comments translated into Inupiat by Mr. Nageak)

MR. BROCK: The next person is Percy -- and I'm not going to try your last name, Percy, I can never remember how to pronounce it.

STATEMENT OF PERCY NUSUNGINYA ALASKA ESKIMO WHALING COMMISSION

MR. NUSUNGINYA: Gentlemen, to summarize what the first two elderly gentlemen have spoken in Inupiat and did not have paper backup and I do, and what they have more or less said I will put this. First of all, my name is Percy Nusunginya, I am with the Alaska Eskimo Whaling Commission and here is my statement. Industrial cleanup efficiency has not improved since January 28, 1977 in Buzzards Bay, Massachusetts. Oil spill which is only 20,000 gallons recovered from 81,000 gallons spill. Now, this is in Massachusetts, not in the Arctic. This summer there was supposed to be a demonstration on oil spill response but the weather did not cooperate in the Arctic, so we will expect the industry to have an oil spill on a calm day. The cleanup on an oil spill in Buzzards Bay was from nil to



24% effective cleanup in mild weather. Here in the Arctic, oil spill will be next to impossible to clean up, as proven by the oil company in their failure to do a demonstration oil spill cleanup. Quote: "The loss of a communication channel and the loudness of the ship noises might well result in the dispersion of normally herding marine mammals and may interfere with normal reproduction". That was from page 275 of The Question of Sound from Icebreaker Operations", the proceedings of a workshop of February 23 - 24, 1981, Toronto, Ontario. Arctic pilot project was stopped because the noise pollution was the most imminent danger along with the oil spill. We have told the government and the oil industry over and over that the Diapir Field is the critical habitat of the bowhead whale and other marine mammals. If the bowhead is really in a critical endangered species list, then I would be willing to stop hunting the animal if the oil industry will stop their offshore oil activities. The United States has no jurisdiction and no claim in the Arctic. This is based on the United States versus Mario Escamilla, the ice island case, and again, from the Congressional Records, 197th Congress, 2nd Session, December 9, 1982, and from the law of the sea of the Arctic. So this lease sale should be at least deleted or delayed. And we know that the Federal Government will lose billions and billions when the Inupiats know that the Diapir Field



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is larger than the North Sea fields. As the Commission member of the Alaska Eskimo Whaling Commission, I feel this should help your staff in making it clear that this lease sale is a direct threat to the well-being of the Inupiats and the animals of the Arctic. Thank you.

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MR. BROCK: Thank you, sir. The next speaker is Ray Dronenburg.

STATEMENT OF RAY DRONENBURG

ENVIRONMENTAL PROTECTION DEPARTMENT, NORTH SLOPE BOROUGH

MR. DRONENBURG: My name is Ray Dronenburg, and I'm with the Environmental Protection Department of the North Slope Borough. I have lived here in Barrow since 1978 -and you want my address, Post Office Box 69, Barrow. 1978 until 1980 I was Director for Marine Operations for the Naval Arctic Research Laboratory and as such had occasion to direct offshore OCS research in the Beaufort Sea and partially in the Chukchi Sea. During that time it was my experience to determine that the Beaufort Sea was a very unforgiving ocean and the Chukchi Sea was completely something Having read this book I can't help but wonder how people can -- and I'm sorry, I forgot my glasses -- but I can't help but wonder how people could write something that says although some bowhead whales are likely to contact oil on the surface or in the water column if an oil spill occurs the entire population, or a major portion of it, is unlikely



to be exposed. This animal, as far as I can determine, is still an endangered species animal, and it seems to me that if there is any possibility that this animal might in any way become exposed to oil, then we owe it the greatest regard. And therefore it seems to me that to lease an area that this whale inhabits a considerable amount of the year doesn't really make much sense at this time. I'd like to point out that probably the biggest concern that should be faced with this lease sale is the people of the North Slope. The people of the North Slope depend on the Beaufort Sea and the Chukchi Sea for subsistence products to a very large They depend on the bowhead whale, on the seal, on the fish, on the polar bear, and on the fox -- everything that comes from the sea. And here we've discussed turning that sea over to oil and gas development. I have testified at previous EIS get-togethers that as many as 3,000 small, incidental oil spills occur annually with onshore normal oil and gas development. We can expect that as development occurs offshore that these 3,000 incidental spills will move offshore with that development. I read in here that some 37,000 pounds of drill mud cuttings are to be disposed of at sea. And in total, I really have a grave concern for the Beaufort Sea as a repository for all of this debris that might be associated with offshore development. Additionally, I am concerned with the dredging of some 13 or 15 platforms



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with which to drill wells in that the dredging for this gravel, which represents probably a million cubic yards of gravel per island, is going to make an horrendous amount of noise in an area that's very sensitive to noise. ally, in relationship to oil exploration, we're looking at seismic boats booming their way up and down the Beaufort Sea. Looking at this map on the wall here, and especially the two gray areas, we're looking at areas from Kaktovik to the Canadian Border that are very strongly suspected as critical habitat areas for the bowhead whale as regards their feeding habits. We're looking at -- your gray area probably doesn't go far enough west that it doesn't include Camden Bay, where there is also a very strong indication that there is a very critical feeding area for bowhead whales. Looking to the west we do see that the deletion does include the Plover Islands Chain where there have been three or four papers written by National Fisheries Service and various other agencies indicating that there's probably a strong feeding trend in that area also for the endangered species animal. Having been privy to several meetings of Beaufort Sea Biological Task Force, et cetera, it seems to me that all indications are that the Beaufort Sea, especially from the Canadian Border to Point Barrow is pretty darn important to the bowhead whale. It just doesn't seem logical to me that at this time, with the small amount of



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research that's been done in that area, we would want to give up the ship and turn it over to the oil companies. There's a lot more that needs to be done there. steered away from the Chukchi Sea because I don't know -very, very little research has been done on the Chukchi Sea from Point Barrow on down past the edge of the lease sale area. Now, the Chukchi Sea I regard as highly dangerous, with ice, ice movement, et cetera. It only would take -we do the whale census in the spring and it would only take you one overflight of that area during the spring breakup time, and looking at the mulching action of that ice out there you'd think to yourself there's not going to be much that would survive out there in the way of a drill ship or an island or whatever platform the oil companies intend to use. It is my intention to write my testimony and to present it to you in written form. I do not have that done at this time so I just think I will let it rest there. Thank you.

MR. BROCK: Thank you. Tom Albert.

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STATEMENT OF THOMAS ALBERT

ENVIRONMENTAL PROTECTION OFFICE, NORTH SLOPE BOROUGH, BARROW

DR. ALBERT: Well thank you, my name is Tom Albert, I work for the Environmental Protection Office of the North Slope Borough. And as I mentioned to you earlier, if you don't mind I'd just like to show a couple of slides to



illustrate some of the things that I want to mention, and I have a couple of items just to pass around. What I'm going to do is confine my comments pretty much to the effect of oil on bowhead whales. And the sections in the document where this is covered is extraordinarily brief and, in my view, borders on incompetence. I'm just really surprised. One of the things that's alluded to in one instance here is that oil may stick to bowhead whale skin, and a few pages earlier there's some reference to oil not sticking to the smooth skin cetaceans, although there's no reference to, let's say, explaining these two comments. I think what's going on is probably a basic misunderstanding by whomever prepared this section of what's going on with certain There are three cetaceans that I'm aware of that cetaceans. do not have smooth skin, one of them is the right whale and it has rostral (indiscernible) that people are well aware of. Another is the gray whale which has many barnacles over its surface. And a third, which is maybe not so well known, is the bowhead whale, and I think it's reasonable to speculate that a substance such as oil will tend to adhere to surfaces that have microrelief attached to them. And the example that I would use to you, and I'll come back to it again, and it has happened probably to most of us, is in eating a dinner, and it usually happens at a nice restaurant, the better dressed you are the more likely it is to occur,



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whereby you spill a little bit of gravy or salad oil on either the best tablecloth, or on your tie, or maybe on your wife's dress, whatever -- nevertheless, we all know that this material just does not blot up very nicely with a napkin, it stains; whereas the same quantity of gravy or vegetable oil or whatever, if dropped on the table surface, the smooth surface of the table, such as the table in front of you, can be easily wiped up with a napkin, leaving almost I don't think it stretches anyone's imagination no residual. to understand what's going on. The microrelief provided by the rough surface, be it the nap of the rug under your feet right now or the table -- or, let's say clothing -- provides a surface for the oil to adhere to, whereas a very smooth table surface does not. (Slide) There's a bowhead whale captured by Harry Brower in the Spring of 1980, and if you look at the skin again it appears to be almost glass like in smoothness and has helped to perpetuate this idea that maybe the oil will not stick to these animals. On the right hand side a little bit toward Dr. Emerson you begin to see some areas of roughness. If you look at them a little more closely you'll see several dozen rough irregular areas on this animal's surface. Of all the animals that I have examined, some 13 animals up very close now, they all have these and they vary from hundreds to many hundreds over the animal's surface. If you look at them a little bit closer



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you can see that indeed there is a roughened area here. That little yellow thing in the middle is a louse that's something on the order of a half-inch in diameter, to give you some idea of scale, he was hiding in one of these areas. These lesion-like -- these lesions are eroded areas. you look at them closely, they do have a microrelief, something on the order of amillimeter or so. They are maybe two millimeters deep and something on the order of two or three centimeters, sometimes up to six inches in diameter. So, anyone that thinks the skin of a bowhead whale is as smooth as a tabletop is just displaying their own ignorance. I'm afraid that ignorance is well displayed in this section here on oil effects on the bowhead whale. (Slide) on a little further, here's a little closer up view. lesion there in the lower left central area there that looks a little fuzzy is something on the order of an inch and a half in diameter. This, by the way, is a whale that was captured -- the one previous to that was a whale caught in the spring of 1979 by Burton Rexford (ph) who's here in the audience. This is a whale that was caught by Joe Kaliak (ph) in 1979 in Kaktovik and the baleen is visible in the upper area there. It is a closeup of some of these lesions on the head of the animal. The head seems to be particularly well endowed with these roughened areas. Some people think it's sloughing skin, which is just off-the-wall,



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it has nothing to do with it. We do not know the exact cause of these things, the best guess that we have at the moment is it's some sort of virus, although we haven't been able to isolate it. So the contention is that here you have an animal that is not as smooth as glass but is covered by hundreds and hundreds of these eroded areas of skin, very common on the head. And the head, of course, is the area that comes out of the water during surfacing. Anyone who feels that oil will not stick to these things at all I'm afraid is just making a -- I don't think it's realistic. We're speculating as to what's going on here. I think it's quite reasonable to speculate that oil will stick to a roughened surface. Now, one of the reasons maybe for making so much out of this is that if you look with a light microscope or a scanning electron microscope of the normal skin of a bowhead you'll find out that it's not only very smooth and there's almost no bacteria on the surface. Yours and my skin is loaded with bacteria. Their skin on the surface the smooth areas, there's not much bacteria. As soon as you get into one of those eroded areas there are millions, in fact billions, of microorganisms. The problem is that if you look down in these lesions also you find that the skin has been eroded away and it's very close to the very small blood vessels, the capillaries of the skin. The bacteria thereby are very close to the blood vessels. If oil were to



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pass by those areas and stick -- and I would certainly like for someone to give me a good reason why it would not stick -- it may further irritate already damaged area and allow the beginning of an ulcer. As anyone who has any medical training knows, if you begin to damage the skin to the point of ulceration, you begin to allow bacteria an avenue into the bloodstream. So, in the Environmental Impact Statement there's no mention -- there's only one brief mention of this and that's dismissed as unfounded speculation, or something of that nature.

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Now, as I'm sure you folks are aware, the Bureau of Land Management paid myself and several other folks to conduct a study on the basic biology of a bowhead, including structure of the skin and things like that, which we did do and which is mentioned in your document here briefly. we were finished with our microbiological and whatever gross anatomical study we did for BLM, I took the information as best I could and summarized it in a view that I thought would make some sense as to how this animal may be damaged if it encounters oil, based on what we know about its structure now. And that is the concluding chapter in this report as I'm sure some of you folks may have looked at. not even mentioned in this Environmental Impact Statement. Now, this document, the final speculative section, was reviewed by all the people that participated in this study.



There were 30 scientists who participated in this study, 30 of them; there were 20 veterinarians and two physicians, and a zoologist. They all reviewed this speculative section that I put at the end entitled, Some Thoughts on the Effects on Bowhead Whales - Spilled Oil. None of them found anything irrational or overly wild or anything like that. And I didn't think they really would because people who are trained in disease can see these as quite rational speculations. To come to eventually the intestinal obstruction thing maybe may not make sense to many folks, but to those trained in medical or veterinary practice these do make sense. Two of the people on this study are certified pathologists, one's a physician and one's a veterinarian. These people are well capable of passing, let's say, on whether or not this is too speculative. I would urge you when you get into the effects, estimating the effects on animals, that you get on your review panel appropriate -on your evaluation -- appropriate people, appropriate expertise. And this should include board certified pathologists, or clinicians with experience with large animals. see any of that. Let's go on here a little bit. (Slide)

Let's go on here a little bit. (Slide) This is the blowhole area and there are some roughened areas also. These occur all over the head. Any bowhead whale that's going to surface in an oil slick is going to get a lot of



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The baleen of these animals is charac-(Slide) oil on it. terized by very long fibers. These are very dense fibers, and one might ask why dwell on something like this? baleen fibers, hair-like fibers, which are something on the order of 8 to 10 inches, sometimes even longer, break off as the animal feeds. And every stomach I've look in has some in there. This particular group of knotted up baleen hair were collected by Fred George from an animal caught in Kaktovik, I think last year. One may say why worry with This is an open stomach from something like this. (Slide) about a 28-foot bowhead whale after it's been in (indiscernible) for awhile and it may not be all that exciting to most of us, let's say. The real important thing is if you look on the left that little sort of greenish area that has that cord running through it from below upwards -- that cord disappears into a hole and then emerges out the top. That hole is the third compartment of their stomach; you know, it's a four-chamber stomach much like cattle. The third chamber is a tube approximately one and a half inches in diameter and something on the order of a foot long. It doesn't matter what this animal eats, or how big the animal is, if it's 50-ton in size, or whatever it is, every drop of food that it eats has got to go through that little hole. there I don't know, but that's it. Any veterinarian or any physician who would look at something like this would say,



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man, sooner or later you're going to have an obstruction here if you put circumstances in the right frame. That is, you've got to have the makings for an obstruction. And the ideal makings for an obstruction are a filamentous material in the food and a sticky substance. Many cat owners and dog owners learn this to their dismay, the common hair balls Well, what I'm trying to say is that I think the stage is set for absolute disaster on bowhead whales if they encounter oil. I think the people who have prepared this section in this book have done a disservice. It, I would say, borders on incompetence. And I will argue that with The effects of ingestion of oil are passed off in a single little paragraph. And all they do is reflect the inability to grasp what's going on by the preparers, I think. Now, let me go through this one first. Here's the baleen fibers that break off, they're in every bowhead's stomach. If you put them down in an animal's stomach and put a sticky substance in there such as oil, it's got to It may not happen today, tomorrow, or next week, but it's going to happen. Sooner or later those hairs in there will mat together in sufficient quantity and bind up with them these little shrimp-like critters that the animal eats and make an obstruction, or at least a hair ball-like thing. But if the animal had a three or four inch diameter GI tract continuously, maybe it would never be a problem.



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But God, for some reason, has put, right in the beginning almost, an inch and a half diameter tube. Yes, Ray?

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MR. EMERSON: Tom, they seem to be knotted already, is that right?

Right, that is the only instance that we DR. ALBERT: found like that, and Craig found those. And the purpose of showing them is not necessarily to say that this occurs in every whale. This is what they're going to look like after they're twisted up together in a sticky substance. those hairs are quite long, as you can see, and the potential for them getting balled up with something like oil is just wonderful. So I don't think if a bowhead whale swims into an oil slickit's going to die immediately. It's not going to happen, he's going to swim over the horizon and then the problems are going to happen. The next day is he going to get ulcers on his skin, bacteria going into the bloodstream, or God forbid, this thing. I showed you a little while ago -- here's one of these skin lesions. If you don't think that's rough, then there's no hope. I mean, there are lots of these things on these animals. bowhead whale's skin is not smooth. A lot of it is. These things, don't get me wrong now, are probably as much a problem to the bowhead whale as the moles and occasional wart and stuff that you and I have, usually in profusion. They don't bother us, and I don't think this, whatever it



is, bothers this animal. But the seeds for destruction are there. There are loads of bacteria in there and they are very closely eroded, almost down to the blood vessels, and if you put something else on there that could irritate this a little bit further, I think you're in for trouble. And it's not in here.

MR. BROCK: John has a question. Go ahead, John.

MR. MORRISON: I've got a couple of questions. First, have you identified the bacteria that inhabit these lesions, and particularly the ones that might be pathological if they got in the bloodstream?

DR. ALBERT: Yes and no. Okay, we've identified -beginning with this Bureau of Land Management funded study
we started identifying bacteria. We had a lot of problems
with contamination of samples. Anybody who has collected
material from out on the ice and held it unrefrigerated and
then frozen and then unrefrigerated and then frozen and so
on, by the time it gets to God knows where you have problems, logistical problems. So we found probably some 20
bacteria so far but none of them to this date are known
pathogens. A few of them are capable of causing disease.
That is, are opportunistic type organisms, the kind of
organisms you and I have on our skin and in our respiratory
tract, and under the proper circumstance when we are
weakened will cause disease. But they are not virulent



organisms on their own. We are continuing these particular microbiological studies and hope that we now have in hand at the University of George proper samples to delineate this. We have every reason to suspect that the bowhead whale skin will be populated by pathogens, just like your skin is and my skin is, horse skin, pig skin, everybody's skin.

MR. MORRISON: For the benefit of the record, it would help too to go back into history and explore any ideas or observations that the oldtime whalers might have had about these lesions. Have they always been on bowheads, or are they something that have developed in recent years perhaps from contact with something encountered somewhere in their migration?

DR. ALBERT: Apparently they've been there. People tell me they've seen these for a long time but they never worried about them, it doesn't, apparently, kill the whale. They're usually limited to the outer two or three millimeters of the skin. The skin is a centimeter thick, or two centimeters thick, so it's, let's say, not in itself a lifethreatening thing, no more than to you and I with certain abrasions and things that we have on us. Old photographs I've looked at, if you look at them carefully enough, especially on the head, they're always there. So they're there. They were reported in a NARL study and they were



reported in here, but they're passed off as unfounded speculation or something. Well, it's quite reasonable speculation for anybody who has any medical training. For people who don't have the necessary background, yes, maybe it is a speculation too far out.

MR. BROCK: Ray, do you have a question?

MR. EMERSON: Well, this isn't so much a question.

Sometimes the sections, like say for example on whales -and this isn't an excuse, believe it or not, this is not an
excuse for what has been omitted -- it's just that a more
recent EIS like this one, the section will probably be
shorter due to the fact that we are referencing back, let's
say in this case, to the Sale 71 material. So a lot of
the descriptive material is the same, the same basic data,
we will not -- we try to build with the more recent stuff.

DR. ALBERT: But nevertheless, Ray, it's not in the earlier ones either. It's just reported that the oil effects are limited to the work that Dr. Geraci did, which is very nice work, it was done with smooth-skin cetaceans for very short periods of time -- very short periods of time, 17 hours, 17 minutes, one hour, whatever it was; these are very short times. I think if you put oil on something like that, you're going to find that it's going to stay down in the microrelief, just like down in the nap of your tie or the nap of this rug, it will stay for a long



The bacteria stay there, they don't get washed off. time. The ones that are out on the smooth skin get washed off. I suspect the oil would get washed off of there also, but not down in these recesses. And there are a lot of them on this sample. So I think you're really playing with something very dangerous here, and that is you have two extraordinarily well designed mechanisms for doing grievous harm to these animals. For some reason it's there. You have eroded areas almost down to the blood vessels and loaded with bacteria. You have the anatomical arrangement for a gastric obstruction, and you have this filamentous material that nature puts in there every day. Hair breaks off in the animal's mouth all the time. The baleen studies that are reported in here -- the baleen fouling study that was done by Dr. Geraci, just to go on for a few more minutes, is a very fine study except it was not done on bowhead whale baleen, it was done on baleen with very short fibers, and it did not measure filtering efficiency. It's incorrectly stated in here as measuring filter efficiency, but he didn't. He measured water flow. I don't know of anyone who feels that water flow through baleen is going to be stopped by oil fouling. I don't know of anybody who says that. So he does a good study, he's a good man, which confirms something that I think most people say is a non-issue. On the other hand, you have a study done by Braithwaite on bowhead



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baleen, which is given short shrift in here, one paragraph or half a paragraph, which clearly shows that this long-haired baleen will become matted with oil. And he did not bother measuring whether water would pass through it or not. That's not the problem, the problem is, is it going to affect filtering efficiency? The efficiency of extracting the critters, that's what he measured. And sure enough it does. Not as much as I thought it was going to do it, but it does.

MR. BROCK: Thank you, Tom.

DR. ALBERT: Thank you.

MR. BROCK: The next person registered is Leroy Oenga. STATEMENT OF LEROY OENGA, INDIVIDUAL, BARROW, ALASKA

MR. OENGA: First of all I would like to state that I started work with the Environmental Protection Office here in Barrow this year. And my feelings in the past and now are that we have an offshore subsistance lifestype here in the Arctic Slope. We have lived here for thousands of years and yet we speak and yet still you want to go offshore. We were here first but I guess Government, in our land, wants to drill even when we object. I have worked in the past at NPRA, making drilling pads, airstrips, and roads. People I worked with think we're just like the native Indians down south, but we aren't. Here we are with strong cultures, still going strong; our main goal is a subsistence lifestyle



and, best of all, our culture for our young generation.

This would result in our environment being impacted by noise and activity around that drill area, especially the whale migrating route that lies in these boundaries. So I oppose this lease sale. Thank you.

MR. BROCK: Thank you, sir. Harold Curran.

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STATEMENT OF HAROLD CURRAN, ATTORNEY

NORTH SLOPE BOROUGH

My grandfather says Curran, so I think MR. CURRAN: that's the appropriate way of saying it. My name's Harold Curran, I'm the North Slope Borough attorney; that's C-u-r-r-a-n. My address is Post Office Box 69, Barrow, Alaska 99723. I believe that Lloyd Avakanak (ph) is going to make some comments after me, but I've been asked to try to set out generally what the Borough position is, and also to discuss some specific issues. The Borough has recommended that the sale be delayed for a period of five years. There are many reasons for this recommendation, but one of the major ones is that it will give an opportunity for the Federal Government and State and local governments to obtain more information concerning biological and geophysical information -- which is, as commented on earlier, very sketchy for the Chukchi Sea. And there are some problems, especially when you get beyond the sheer ice zone in the It will give you an opportunity -- or oil Beaufort Sea.



companies -- to demonstrate their technological capabilities to explore and develop the resources if they're discovered in this area, especially in the deeper water. It will also give further time to develop cleanup capabilities. And one other aspect that might be considered is that if there are significant discoveries in the sales which have taken place it could bring the Federal Government significant increases in revenues for a later sale. If you do not delay the sale, then we're recommending that you delete the eastern and western tracts and that you delete tracts that are in deep water. The reason for those recommendations are multiple. When we're saying deep water we mean water that's in or beyond the sheer ice zone. I don't put a depth to it because, as your comments point out, the sheer ice zone varies, depending on the year and the geographical location and the severity of the winter.

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I now plan to comment on ice movement, which it is my understanding occurs both in the sheer ice zone and the multi-year ice. You pointed out that ice movement in these areas vary anywhere from 1.4 to 4.8 kilometers a day, and even a higher estimate of 2.2 and 7.4, an average of 4.3 and an extreme of 32 kilometers. And you characterize this as pretty minimal ice movement. And that may be the case in terms of a situation where you have a gravel island and the gravel island is going to withstand the geophysical



force of the ice. But it's not the case when you're talking about the ability to clean up spilled oil. Oil cleanup capability has been recently analyzed by the State of Alaska S.L. Ross, which is an environmental firm out of Canada, has indicated that industry has demonstrated some difficulty to clean up oil in broken ice conditions. However, the premise of their report is that the ice doesn't move, it's land ice areas. Once you get into sheer ice and pack ice, there's movement. And you're talking about movement anywhere from 1.4 kilometers up to 32 kilometers a day. quite significant. You're not going to be able to stop the movement, you're not going to be able to control the oil, you're not going to be able to contain it, so the major method of cleaning it up, in the S.L. Ross report, in situ burning, isn't going to occur. North Slope oil is wetter and you can't burn it and you can't bunch it and contain it, so you're not going to be able to clean it up, you can't get equipment out to clean it up, you can't get people out to clean it up; there's nothing to thwart it. This inability to clean up spilled oil, I think when coupled with some other factors, your admission that even minor impact on the bowhead whales will have a major impact on subsistence for the Inupiat on the North Slope, and the seriousness of the fact that the bowhead passes by Point Barrow every year, twice a year, and that the ice extremes in the



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Point Barrow area are greater probably than any that have been encountered by industry, seems to be pointing toward a major disaster to the bowhead whale and the Inupiat; a disaster that is alluded to in your Draft Environmental Impact Statement but is not really directly addressed.

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Legally this raises many questions. As you well know, you have to show that you're consistent with the Alaska Coastal Management Program. And that program, as I believe you point out in the Impact Statement, requires and guarantees the subsistence. Since you've already indicated that the impact on subsistence in the Barrow area could be major if there is even a minor impact on the bowhead, this one, if coupled with the inability to clean up and contain spilled oil, and the report that Mr. Albert has distributed on the impact spilled oil will have on the bowhead, and the fact that the bowhead migrants pass this point almost in concentration twice a year, I think let's you know the significance of attempts to lease tracts for oil and gas development in this area. I've talked about cleanup and now I'll talk about platform capability in this area, for example, gravel islands. Well, I'm familiar that gravel islands exist out in the Beaufort now, they exist essentially in land-fast areas; although you mention sheer zone they're not in very deep water. And seeing as how the sheer zone tends to move, I think they're really much closer to the



land-fast areas where you're not going to have significant ice movement. When you get out in deeper waters and you have ice movement, there's a question about the capability of platforms, substantially. Gravel islands -- supposedly that technology's viable in 60 meters of water or shallow water The EIS doesn't state 60 meters but it does talk areas. about other technologies in deeper water, and I'm assuming that's why it mentions deeper water. These technologies have not been demonstrated; geophysical hazards are extreme; there's no indication that there's going to be any efforts to have industry demonstrate that capability before you actually have it out in the water drilling. interesting report in reference to that on the radio The Department of Labor for the State of Alaska tonight. has just released some records which indicate that the instance of injury to oil and gas employees has gone up at the rate of 17% from 1980 to 1981. Their stated reason for that is the oil and gas industry was expanding in the State of Alaska significantly during that time period. And the stated result of that is you have a lot of new employees and a hell of a lot of on-the-job training, which is the method of training that industry uses. As a result of that, you have employees making more mistakes which result in industrial accidents which injure them, taking them off the job and putting them in the hospital. Well, when they're



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making mistakes that can also result in oil spills and potential severe and uncontrolled blowouts. I think it's quite commonly referred to that problems that arise do not arise due to failure of equipment, they arise because of failure of operators. And we have a situation here where it's recognized that due to the expansion in the area there are mistakes made by operators in increasing frequency in the state of Alaska. And it certainly will have an impact on the potential for oil spill in the Beaufort Sea. Again, you have to couple that with the inability to clean up.

In the -- our information, based on the whales we have taken samples of in the Kaktovik area, shows that the bow-head whale feeds in the eastern part -- in the Beaufort between Kaktovik and the Canadian Beaufort. This fact, we believe, means that this particular area should be considered to be a critical habitat. And an oil spill, of course, in that area can have significant impacts on that habitat.

To try to summarize what I've indicated to you, if you don't delay, delete the eastern and western tracts. That will have eliminated the major effects on subsistence for Kaktovik area residents and the residents in Barrow, and will also eliminate the potential impacts to the bowhead whale. When you are considering your decision, I understand you have to take these factors into consideration,



the technological capability to explore and balance that against the environmental capabilities -- or the capabilities to prevent negative environmental impacts, coupled with the capability to clean up oil, the question mark in reference to platform capability, and major impacts that a disaster will have on the bowhead whale and on the Inupiat, I think you can only come to one reasonable decision, and that is that you delete the eastern and western tracts and delete the deep water tracts. Thank you.

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MR. BROCK: Thank you, sir. Ben Nungasak (sic).

STATEMENT OF BEN NUMNIK, AN INDIVIDUAL, BARROW, ALASKA

My name is Ben Numnik, I live in Barrow MR. NUMNIK: all my life, 70 years now. Well, ahead of me people have testified and I think they are all talking about what I'm going to say. But watch -- I'm going to say, watch out the current; which way they are moving push the ice. They are very strong, I know that. Whatever -- the deeper area out in the ocean, it's got to be the devil. The currents, which way they are moving is very strong. One time that channel, that island, that ice go underneath and lift it up way up high. Like people say, one time I see that on the ocean, on top of the ice. Well, I don't have much to say. Watch out that current, which way it's moving. In that deeper water out in the ocean it's pretty strong. That's all I'm saying. That's what I have to say, that people are



testifying, that's all I'm saying. Thank you.

MR. BROCK: Thank you, sir.

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STATEMENT OF JOANN LONCAR

NORTH SLOPE BOROUGH

MS. LONCAR: My name is Joann Loncar, L-o-n-c-a-r, and I work for North Slope Borough Environmental Protection I think I'm in the same boat as Ben, most of the people have covered my comments. However, there are a few problems with the DEIS I would just like to go through page Back in 1979 the seasonal drilling restriction was by page. implemented, not only for oil spill cleanup capability but for noise and disturbance also associated with that noise. And this DEIS treats it very lightly, it gives opportunistic observations of people working on a platform or something seeing whales swimming. There were a couple of different sightings like that mentioned in here, and I think that they should not be mentioned unless there is backup, scientific backup, for it. If we could take them out of the DEIS (indiscernible). Then we go on to oil spill cleanup capability. A couple of people have mentioned a State demonstration already. I'd like to have MMS have guidelines prepared already that would let us know what the oil companies will be required to do to demonstrate their cleanup capability in broken ice to lessen seasonal drilling restrictions. The risk analysis used in the DEIS is very



confusing to me, I don't understand it. It should be broken down to simpler terms or something like that.

MR. BROCK: What was that again?

MS. LONCAR: The risk analysis, it's confusing. I mean it at one point talks about Alaska OCS's historical record, and at another point about all OCS spills, and it's very confusing. When you get into the transportation of oil once the field is developed, to my knowledge there are no pipelines in this type of situation. I was wondering if MMS was going to require a test line be put in and monitored for, say five years, before any oil is pushed through it? And the same thing goes for new platforms to be put in these previously unexplored areas, would they be monitored before drilling is allowed to occur? I think that would be a good mitigating measure to be put into the final EIS before the long-term programs are implemented.

You talk about the drills the industry will have to perform and it says, should operations continue into new seasonal environment, then demonstrations will have to take place. But you don't allow for any buffer period to train — if you enter broken ice, if you drill up to the point where the ice starts breaking without having to demonstrate the capability — I think that they should have to demonstrate some reasonable cleanup capabilities. For instance, your guidelines right now state that you have to clean up



1,000 barrels a day. Beyond saying that 48 hours -- or 6 to 12 hours have backup equipment there. That would be the same for broken ice? It's not stated and it has to be. At one point you even say, where total removal of the pollutant from the environment is not possible -- then it goes on to say more. I know that's not your criteria for cleanup, so it should not be said. The demonstrations haven't proved that total cleanup is possible. I'd also be interested in knowing that MMS plans to adopt the Canadian regulations regarding the blowout prevention system. think it was Sam Taalak brought up the Polar Sea voyages. They should be included in the EIS. Breaks were made in very young ice, they made it up this far and that's as far as they made it. It was embarassing. It should be mentioned. You go on to talk about mass movement and say the hazards associated with mass movements are greatest in the Camden Bay area and the deeper portions of the lease sale area, and I think that kind of backs up Harold's statement that they should be deleted. Mass movement hazards are greater there and those areas should be deleted.

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There's some problems with some figures in here too,
I'm not certain if they incorporate the seasonal drilling
restriction or if (indiscernible), IV-65, no, 67, and
there's two figures after 67, Figire IV-7 and IV-8; IV-8,
during the NPRA lease sale, a document came out called



The Proceedings of NPRA Caribou and Waterbird Impact
Analysis Workshop, May 11 through 13, 1981, Anchorage,
Alaska, and in that document they depicted areas that were
critical to life stages of waterfowl. Many of them. Many
of them you have listed here in this figure but you don't
have the Cape Halkett area or the Colville River Delta.
There's also Kalikpik -- I can't pronounce it, but Salt
Marsh -- K-a-l-i-k-p-i-k, and then the Kugrua River salt
marsh that are molting or breeding areas for waterbirds.
These should be included.

And then on page IV-94, it says, major whale migration and feeding areas, that's figure IV-12. I think this is only depicting the spring migration. And the Youngblood and Reeves study that is mentioned in here -- apparently they observed bowheads feeding just outside of Prudhoe ay, outside the Barrier Islands. You know, this is just another data gap we're confronted with. Until all these feeding areas are delineated we put bowhead at risk. Then you just flip it over again to the next page, that's figure IV-13. Does this table incorporate the seasonal drilling, the proposed seasonal drilling restriction? And if it does, isn't 50% chance of bowheads encountering oil spill far too much.

MR. EMERSON: It doesn't include (indiscernible), that's something we couldn't count on.



MS. LONCAR: And it also doesn't -- you don't count on any cleanup taking place if this oil spill isn't incorporated into it?

MR. EMERSON: No.

MS. LONCAR: Well, this just leads me to believe that a longer buffer period is needed because -- especially here in this whale migration corridor. The majority of all whales, all bowhead whales, migrating through the Canadian Beaufort pass that area. And it's not going to be one or two whales, it's going to be the entire herd.

I think that's about all I have. I would like to reiterate the fact that we would like to see both the eastern and western deletions -- or I would like to see both of them deleted. And as we get into new technologies, offshore pipelines, subsea pipelines, platforms, or drilling ships in this area, I think that monitoring programs should be set up to make sure this thing is not going to fail after oil starts flowing through a pipeline or drilling occurs. Thank you.

MR. BROCK: Thank you very much.

MR. SMITH: Just one question is all I have. You mentioned Canadian regulations on blowout prevention systems, and I was.....

MS. LONCAR: That's on page IV-25.

MR. SMITH: Okay, if there's something that's not in



the EIS that you think should be incorporated, and if you're going to furnish comments, why don't you furnish more 2 specific what's not in our regulations that might be in the 3 Canadian regulations that we should look at. 4 I'm sure that the Borough will be MS. LONCAR: Okay. 5 6 submitting comments. 7 MR. BROCK: Ray? I have one question, well two questions. 8 MR. EMERSON: 9 I hope you're going to give us a copy of some of those 10 I think we got most of them but..... comments. 11 They'll be incorporated in our statement. MS. LONCAR: 12 Okay, thanks a lot. I guess that's it. MR. EMERSON: 13 Thank you very much. Daniel Leavitt. MR. BROCK: 14 STATEMENT OF DANIEL LEAVITT, INDIVIDUAL, LONG LAKE 15 MR. LEAVITT: My name is Daniel Leavitt. 16 of Mr. Leavitt in Inupiat and translated as follows by Mr. 17 Nageak.) MR. NAGEAK: He mentions his name is Daniel Leavitt, 18 19 L-e-a-v-i-t-t, and he has had no formal education but in the ways in the Inupiat people he has learned all of that. 20 21 has lived in an area about 220 miles east of here at a 22 place called Kawialik, a place that's known now as Long 23 Lake. He mentions that when the ice is out, when there's 24 ice out there, if you go out about 25 miles you probably 25 will not detect any current in this area, but some winters



he has been out maybe 10 miles out into the ocean and he has seen ice that has piled up and he has measured to see how thick the ice is in that area where supposedly there's no current, but he mentions that they are eight feet thick, the ice is. He knows this because the area where they do some seal netting they have to put holes in this ice so that they can put their nets down under the ice. And he has mentioned that to be eight feet. And he always thinks, how is that ice able to be piled up where supposedly there's no current 10 miles out in that area. And learning from experience, you know, after he has been able to pick out the problems in the area in which he lives, it comes to mind that the area where the current is moves the ice that is in an area where there's no current. If the ice is moving even 25 miles away, the pile-up would happen in that area where supposedly there's no current. So just the pressure from an area 25 miles away could pile up the ice that far away. To summarize again what he has just said, he knows that when he has been growing up that the animals have been the mainstay of their lifestyle, and his father has taught him what he knows by experience. And his father has also found some seals that the ice -- when the ice is moving they have got caught in between because the current moves the ice that way. And he knows that just the ice movement itself killed the animals around them. And what



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he's fearing is if the rigs, the oil rigs, are going to be put out there and they are in a strong place, or a place where supposedly the ice will not affect that place, he knows the current and the ice and he fears that the oil rig will probably be displaced if the ice starts moving. because of the way that he has lived, using the animals, moving from one place to the other following the animals, he has in mind that if for some reason the boats that we get up here and the planes that come up here weren't able to come to us because of maybe war, there are still some people who will have to go back to that lifestyle, to be hunting the animals. He says that there's nowhere else to go but back to the ways that his father and he himself has lived up here. He says that he's not going against the English ways but if things come to worse, you know, he is just going to have to go back to that lifestyle. mind, you know, that is the reason why he is against the development in this area, because of the animals that we are dependent on. And from experience when the Navy first came around here, there was a tanker that was grounded and because they wanted to get that tanker out they had to spill some of the oil out so it would be lighter for them to pull it out. And just from the spillage from that tanker on the shore, birds and ducks and seals were killed, just from that leakage. In this case I quess it was intentional spilling



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of that oil from the tanker. He knows that these things will happen. If there is development, oil spill is going to have to happen. And even though we need the economy, the money economy that we know now, we should have the assurance that if there's going to be oil development, then the rigs, or whatever is put up out there, is going to have to withstand the pressure and conditions that are around here. He mentions that maybe just the noise itself doesn't necessarily do havoc to the whales especially, but the oil spreading on the ocean would probably have an effect on the beluga, the whales and the seals, because they will have to come up for migrating. If it's going to be that the oil development is going to go, the way that the Inupiat people have lived -- there's going to have to be some assurance that that lifestyle will be protected and would be continued. Thank you for the time.

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MR. BROCK: Thank you, sir. Any questions? The last one we have registered is Mr. John Frederick George.

STATEMENT OF JOHN FREDERICK GEORGE

ENVIRONMENTAL PROTECTION OFFICE, NORTH SLOPE BOROUGH

MR. GEORGE: My name is John Frederick George, I work

for the Environmental Protection Office, Box 69, Barrow.

23 In general, I think from reviewing the biological infor-

24 mation in this, it's apparent that the technical know-how

to develop this field is not present, nor is it well enough



understood to know exactly what will happen should it be developed. I have a number of specific problems with the draft. To begin with, this has the same method of addressing problems of specific species that others have, and that is delegating a minor, moderate, or major impact to the The reason I object to this is it -- well, in particular let's say fisheries, a minor effect may not affect the species as a whole over the entire range, but locally it can be significant. And when you're dealing with gill net fisheries up and down the Beaufort and Chukchi coast, as will occur here, the local impact would be major. it most likely will be should oil get into these major estuary systems. The same is true with birds, it does mention that the impact will be major under certain circumstances but I don't think there's enough emphasis given on the local impact to the communities should oil be -- an oil spill occurrence in a specific area. Now, the section on bowheads, I agree with Dr. Albert, is probably poorly researched and in general you didn't look at enough literature to give a clear view of what would happen to an animal if it encounters oil. And I agree with him that people with proper training should be involved in the review process.

I was going to show some slides also to illustrate some of these things we've been talking about. I know a lot of folks that write these things aren't out in the



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environment itself and these may help to identify a lot of the things the people have been talking about. This, for instance was just five miles north of Point Barrow this past spring. This is a large piece of multiyear ice. And people who are trained in ice physics think that this is probably a piece of glacier ice because it's so continuous. This particular perch was 50-feet high and obviously, you know, tremendous forces were generated, plus this is a very solid homogeneous piece of ice which would exert unusual pressures on structures that are out (Slide) This is another feature caused by shearing and it's rather impressive. The shearing forces, the lateral ice movement that occurs offshore here -- and this is out in the same general area only the year previous. We tracked ice, using our tracking equipment, going five kilometers an hour right by structures such as this. It's rather impressive. (Slide) This is a similar thing.

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I think in general I agree with a lot of local people, this is a unique environment that requires a lot more study before development should even be considered. Finally, I would like to relate an incident that happened in Kaktovik this fall. Typically, as mentioned in this document, the seasonal drilling restrictions and the period the seismic operations can occur are determined by Minerals Management planes. And such surveys are fine for delineating certain



parameters, you know, whale movements and distribution, but in this specific case they can't be everywhere at once and they did not notice the shore movement of whales swim by Kaktovik and there were seismic boats operating at the same time whales were in the immediate vicinity. And these were reported and at that time the seismic work was shutdown except for an area east of Barter Island. Now, in the same area whaling boats sighted 23 whales as opposed to five whales sighted by aircraft in the same area. So relying strictly on aircraft to determine when migrations begin and end, and the exact distribution of whale, at this point is inadequate. Now, also the marine traffic in that area was impressive. I kept a log, which I promptly lost or misplaced before I came here, of all the marine traffic that went by Barter. And even at this point, just to supply Prudhoe and the seismic work that's done in that area, there were several vessels a day going by. And operating seismic boats were heard. And should this field be opened up, I believe that would go up significantly. We've asked that there be a delay of sale. And furthermore, if that does not occur, that there be areas deleted in the eastern and western Beaufort. And just to emphasize that point, I brought in a jar of stomach contents that I collected from a bowhead just this fall from Herman Oshana's (ph) whale, and people who are invertebrate biologists have said that the



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whale food, these invertebrate organisms that they feed on, are particularly high in oil at the time the bowhead are feeding in the Barter Island area. If you look at this you can see the band of oil that has risen. This is mainly formula mixed with the contents, but you can see that this clear band of oil has risen to the top. So the point I'm making is that this small area -- they feed in the MacKenzie by Barter Island, by virtue Delta, but this small area of it being late in the feeding season and their last large delta food before they migrate -- they do feed in other little areas as they go, but apparently this is the last really important feeding stop -- and it may be particularly significant because of the high percentage of oil content of the animals at that time. So this area by Barter should be considered a particularly sensitive feeding area, even more than perhaps in the MacKenzie Delta. I quess that's basically it.

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I was going to mention one other thing. In your analysis of noise and the effect of noise and marine traffic on bowheads, I've never seen it mentioned but I think it's important to realize that this is still a hunted animal, and that animals that are hunted, as you all know, are more shy and can be more easily frightened, particularly by marine boats, as they can't tell whether it's a hunting crew or just barge traffic. So I think for that reason they may



be particular sensitive to marine traffic.

MR. BROCK: John has a question.

MR. MORRISON: The oil, I was curious, is this oil from the food organisms that's important to the whale's nutrition, or is this oil that's been ingested somehow that may be harmful?

MR. GEORGE: No, no, this is oil that's from the food organisms. In this big digestive mass in the stomach, it has a really viscous oily feel to it, and when you put it in a container and add formula to it it settles out. But as Lloyd Lowry of the Alaska Fish and Game Department has pointed out, late in the fall these invertebrates have a great percentage of lipids in them because they're dependent on photosynthetic organisms that are absent all winter. So they depend, you know, on storing fats to make it through the winter. So this is actually his work, he said that this last feeding is probably the most important to bowheads, particularly because they don't do any significant feeding for perhaps six months.

MR. EMERSON: I have one question. In your sightings of the whales, was that near shore?

MR. GEORGE: Yes. I'm sorry, these were all sightings from whaleboats in the near shore environment. Generally the MMS planes were going way far offshore this fall because ice conditions were such that whales were migrating about



70 miles offshore. And they were not aware of the shore pulse, which is what the Kaktovik whalers need in order to catch a whale, they can't go way off. Well, there are problems with using aerial surveys for this purpose. MR. EMERSON: Well, in this pulse then there are leads near shore that were not.... MR. GEORGE: There were what? The whales were in leads near shore while MR. EMERSON: the aircraft were looking 70 miles offshore? MR. GEORGE: Yeah. Well, they were running transects to determine distribution and they had not yet seen whales in this Barter Island area. Had they seen them they would have notified the proper people to shut down the seismic operations. But Nolan Solomon was responsible for the actual sightings that shut down seismic operations this fall. And I mean, to verify the sightings, aday or two later -they took a whale a day or two later in exactly the same area, so, you know, they're good, reliable sightings. MR. BROCK: Any questions? Thank you, sir. Anyone else registered, Laura? That is the end of the registered testifiers. Do we have anybody who would like to testify who is not registered? Sir! STATEMENT OF NOLAN SOLOMON, INDIVIDUAL, KAKTOVIK, ALASKA MR. SOLOMAN: My name is Nolan Solomon and I'm from Kaktovik. I've got a written comment but I'm just going to



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send it later on to the panel. I want to say here that I came a long way and I have been sitting here for hours listening to people talking about my hunting ground, the Kaktovik area. And I want to tell something about the seismic crew that went out this summer. There was just a little bit of it but it really bothers us over there. We don't see no whales, the seismic boat travels day and night. this is some of the stuff that's just started. When the oil starts, if they have exploration anywhere in that area, we don't know what will happen to the whale. Now, on that lease area, you said a portion of that would be deleted, just from Camden Bay on to Demarcation Point. All of our food comes from the Camden Bay area. The migration of ducks and fish come from that area and what would happen if there's an oil spill of some sort, from that area to our area it would wipe out everything. I want to say a little bit more but I will add this in my written statement. And I want to thank you for giving me just a little time. I've got a letter here for the hearing panel from our mayor, from Archie Brower. (Letter from Mayor Archie Brower received by panel.) MR. BROCK: Thank you, sir. This gentleman right there. STATEMENT OF ROSSMAN PETOOK, INDIVIDUAL, WAINWRIGHT, AK MR. PETOOK: My name is Rossman Petook.



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MR. PETOOK: Rossman, R-o-s-s-m-a-n, P-e-t-o-o-k. I was born and raised at Boronik (ph), Wainwright. An AWC Commissioner for North Slope Borough Fish and Game. I feel

5 | comfortable with my own language so I'll let Roy (sic)

6 translate. (Statement of Mr. Petook in Inupiat and trans-

MR. BROCK: Would you spell that, please, sir?

7 | lated by Mr. Nageak as follows)

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MR. NAGEAK: First, my name is James. The animals that he's talking about -- you know, we've been hearing about the animals of the sea, the whales, the walruses, and the seals, fish, with also the ducks being part of that, but he stated that also significant are animals that are from inland. For example, the caribou. The caribou will be affected by the exploration of the ocean if there's an oil spill because the caribou gets its salt from the ocean. He is going to tell what he has seen. The Elysium (ph) was on the sandspit grounded, and when the ice came to move, because it was frozen solid on that sandspit the Elysium was cut in half long-ways. If the ice that is land-locked can have the effect of cutting the Elysium in half, his question is, the ice that is moving out there in the deeper part of the ocean, how much strength does that have as opposed to the ice that moves that is land-locked. Okay, we also know that if an oil rig is functioning and underway out there on the ocean and if there's an oil spill, then we are in the



process of killing the animals that live in the area. We don't like the feel of oil on our skins ourselves so we have to take care of the animals that are living in the ocean, that way we take care of ourselves. Thank you.

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MR. BROCK: Thank you, sir. I think the gentleman in the back.

STATEMENT OF RON ALIKLIK

ENVIRONMENTAL PROTECTION OFFICE, NORTH SLOPE BOROUGH

MR. ALIKLIK: My name is Ron Aliklik, I'm with the North Slope Borough Environmental Protection Office, Box 69, I wanted to mention a couple of things in this Draft Environmental Impact Statement that I thought should One of these was on IV-123 where you have more in there. say "...the fish overwintering areas in and near the major river deltas would be the most sensitive to petroleumrelated impacts." And it lists the Canning, Meade, and the Colville Rivers, and there were some other rivers I thought should be included in there, such as the Chipp, the Oliktok, and possibly the Kugrua around Wainwright. And also, in your impacts on subsistence, Nuigsut wasn't mentioned at all on your impacts on subsistence study. Nuigsut should be included also. You went to great lengths on theories on coastal regions but there was nothing listed on Nuiqsut and I feel that Nuigsut should be included also. And that's about all I have to say. Thank you.



MR. BROCK: Thank you. Mayor? Sam, do you have anything else? Do you wish to speak?

STATEMENT OF SAM TAALAK, MAYOR, NUIQSUT, ALASKA

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MR. TAALAK: Alternative No. 3 -- I want to let you know you have never visited our Alaska yet. We have Eskimos living in the Beaufort Sea from island to island with no separation area. You white men have never have seen this yet, we have 5,000 years knowledge (indiscernible) and 10,000 miles of nothing. Now, how can I put the concept to your world of this steady movement of this western Beaufort Sea area, one of the most dangerous areas in the world. You have to take care of yourself, that's all you can do, that's how we survive. I'll tell you how we survive, would advise the State of Alaska because we know. But I to let Alternative II -- Alternative II means no sale; Alternative III is delay until you can make sure you can control the work. And you haven't got that kind of technology, because human error is 99%. Okay, there's an oil glut in the world. I'm paying \$2.75 a gallon for gasoline; I'm paying \$2.79 just to heat my house; \$700.00 a month. I'm not complaining; no, I'm not complaining. The basic fact is, until you can find a clear answer to how you can control the Arctic Ocean and Beaufort Sea, God, how can we look at -- how can we solve this problem? The most brilliant knowledge in the United States of America can't even



compete with what Russia has. To charge me 2.75 a gallon, I live 20 miles from an oil field. I live 20 miles from an oil field -- you want me to protect you? I am paying You're too (indiscernible) to tell me (indiscernible). what the hell you're going to do with my Arctic Ocean and my whales. I'm not going to go with the specialists because they've already told me. Have you ever seen Dr. Albert's -- Dr. Tom Albert's baleen, what one small drop of oil would Do you want to destroy Eskimo nature more than you did. That's all. You've already destroyed the (indiscernible); you've already destroyed all of the other -you must be some famous (indiscernible).... MR. BROCK: I think this gentleman here had his hand up a little while ago, and then you're next, ma'am. I'm trying to keep track of who's next. STATEMENT OF LLOYD AHVAKANA, ACTING MAYOR, BARROW MR. AHVAKANA: My name is Lloyd Ahvakana, and I'm.... MR. BROCK: Would you spell that? MR. AHVAKANA: A-h-v-a-k-a-n-a, and I'm Acting Mayor now since the Mayor's not here I just want to make a few comments. These reports that my staff has given earlier, you know, will be in writing and they will be submitted prior to the 10th of November. And looking at this Environmental Statement that you have, you know, you have a couple of areas where the industry has indicated that they learned



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how to place these gravel islands, they can control the ice where they want it to be, and they can let it stack by itself the way they want it. But you looked at the slides of how that ice can stack but it wouldn't be in the way that the oil companies want it to stack. In your Environmental Statement it's nice, you don't have to worry, that technology is the greatest thing in the world, how can you determine where you want that ice stacked. But that's not the way it is with this current. They're operating where there is no current right now. And I know that area up there where they're operating. I think most of the statements that I had Dr. Albert has given them. He stole my statement, I think. Anyway, I will yield to my wife back here, the boss of the family. Thank you.

MR. BROCK: Thank you.

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MRS. AHVAKANA: My name is Lucy Ahvakana and I wasn't going to talk but was just to meet my husband tonight, I was at another meeting. So I listened to everybody talk and I feel like speaking too. We've got a lot of white people here speaking for us. I think us Eskimos should speak because we know all about this nature here. I'm saying like this gentleman here who talk ahead of us, Daniel Leavitt. I grew up in Prudhoe Bay 26 years, I live there since 1920, 20 miles away from the supply camp, Beechy Point and Milne



Point, that's where I was brought up. And like he said, we didn't have chance to go to school. I never been to school, the same as Leavitt, that gentleman, bald-headed. And everybody who never live out in the country talk about it tonight so I decided to talk. I left from up there, there was nothing up there. And I stay in Barrow, I got married to my husband. I lived there 26 years before I moved to civilization, I grew up with migration like animals and survived Eskimo life the same as our ancestors. Also. after I left awhile I got a job in Prudhoe Bay. nothing up there when I left, at that time there was nothing, nobody lived there except Eskimos lived from Barrow on up to the Canadian Border; just like farmers a long time ago in the United States, they call them frontiers, they live like -- some of them have never been to school, I ran into a lot of them never been to school when I went to the States. Same as me, some can't read or write very well. So some of those oil companies, when they first came up, and they were telling these white people -- others later came -- those graves up there were whalers. But they were lying, they tried to cover up our ancestors' tracks. Ever since I remember, five years old I guess, everybody lived from here on up to the Canadian Border. Each village -- there was a settlement in Lonely, there were a few families lived there, and at (indiscernible) there were a few families



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there. And also in those little camps, each one of those has two or three families living up there ever since I remember. And they were living off our land and they had a few trading posts up there. We called them good white They were helping Eskimos to understand Eskimos. And they become like one of us. And since oil companies came, as soon as they landed I got a job in 1974 in an oil company camp, Sohio hires me. I watched that thing grow up When I was living up there there was nothing. a lot of things changes. I talk to all these environmental guys. I know -- there was a guy worked for Sohio, several environmental people working -- I talked to them. was one certain guy was really being nice and I always ask him, how it's going to affect ice. He said that if anything happened, there's no quarantee. This guy is a Christian guy, he can't tell me lies, he talk honest, I believe him. He said, if ever anything happen out there they can't avoid in that ice thick like that. He said, if it happens in the summertime they can help that, they can burn it or use other things to avoid that. He said no way, there's no guarantee. A lot of time they ask me, what you think of your land up here, these oil companies came like that galavanting around like that out there, you know, on your land. Well, as long as -- since I'm an American citizen and I got nothing whatsoever to say because they



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must know what they're doing because if they need anything in the land it's okay, they can avoid in the land, you know, and they have equipment to do that in the tundra. So, also my husband and I were working at part-time job working for environmental people two summers on small contract. And we had a lot of experience cleaning up the mess they made. And one day we tipped out -- how many barrels of oil -- 200 and some barrels, some of them jet fuel, some of them stove oil, some of them oil, about 30-some odd drums was just dumped in that lake a few miles from (indiscernible). And when I talked with environmental people, those jet fuel never evaporate when it freeze on the ground. Gasoline, yes, that evaporates. And we also tipped out some of these seismic mess and powder and all that stuff, you know, a real mess, until they got more crews cleaning up. I think up to date they've been careful. I understand that. But if they ever -- if something happen out there -- just like the one in Mexico, somewhere out there, no way they can avoid that hurting our food. Just like that other guy said, if there's a war coming we know everybody -- we're going to have a war pretty soon, we lost a lot of men in the war out there, we know that it's going to get here. No way you can move Eskimos from the villages to the Fairbanks and Anchorage, they cannot survive. They won't be happy. I lived there 16 years, I was glad to come back to Barrow. I missed my



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home all that time, my food and my culture. That's what happens when those white women and the white men get married, they get divorced because environment and culture cause it. Even Indian and Eskimo same way, when they get married they can't leave their culture instinct from their background. Like I say, I was born an Eskimo, I can't make myself a white person, I always be Eskimo. I like my food. If the war ever breaks -- a long time ago, 1941, when Pearl Harbor got bombed, we used to get ships up north, they closed that channel down and they quit coming, we don't have no more airplane up there and everybody started moving down here where the airplanes are. And how are we going to survive if they close those airlines and those ships from coming through? How do you people expect us to survive in this land after eveything be destroyed? We have to look ahead. You people always study culture and everything. And we study too in our livelihood. And I don't think there's no way we can survive if something ever happen out I asked somebody here tonight when they were coming to this meeting, I haven't been to meetings, not too many. I used to all the time but I'm very busy at home and tonight I wasn't going to listen but somehow I was out to meet my husband so I listen to everybody and I decide to talk. Because I'm an Eskimo I have to back my people, my younger generation. We are few of us left now, most of the old



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people have gone; we have to lead our young people, we have to back them up. And tonight I want to say, no way, no way, 2 no way you can avoid that strong currents out there. 3 I was going to ask around, after they decide to drill our gas, why they ask you for opinion. They already make 5 decision they want to drill our gas. What are you going to 6 do, what promise are they going to give if we give comment? 7 I like to know that. It's already in the headlines and you 8 guys explain you're going to sell our hunting grounds. 9 What right we got after you decide? And even if we speak, 10 if we give comments, what answer, what privilege, what 11 protection you guys going to give us? That's what I like 12 13 to know. MR. BROCK: Hopefully that's some of the information 14 we're getting here tonight. That decision will be made but 15 16 not by me. But I appreciate you testifying. MRS. AHVAKANA: Like they ask us not to hunt whale and 17 then oil companies can destroy them. Is that right, if we 18 19 kill what we need for our villages and the oil companies destroy our whales? That's all I have to say, thank you. 20 21 MR. BROCK: Thank you very much. This gentleman over 22 here. STATEMENT OF KENNETH TOOVAK, INDIVIDUAL, POINT BARROW 23 24 MR. TOOVAK: My name is Kenneth Toovak. 25 MR. BROCK: Would you spell your name, sir?



MR. TOOVAK: T-o-o-v-a-k. Box Number 381. here at Point Barrow for 60 years, the rest of my life. all study and practice and try to learn something day by day. But the winds and the currents are impossible to learn when they're going to happen. That's the thing that we can't tell, no matter how much experience we do have. There's no way that we can monitor or control the winds and currents. Three things that I have seen, and personally, myself; one, when I worked at the Naval Arctic Research Laboratory back in 1958, the pipe was put in, 12-inch diameter, was put in at the end of the point right where the channel was 40 feet water. And the pipe would be put right in the center of the tip of your spit. And the causeway of that spit was about 300 feet wide. The pipe was put in 60 feet in for the scientists to use to measure the tide of the ocean; 150 feet out -- another 150 feet out towards the lagoon and the channel is right in front. But last summer -- I mean this fall -- I happened to go out to the Point and I discovered that pipe was in the oceanside, approximately 10 to 15 feet in the ocean. In other words, the tip of the spit was moved back in towards the ice. I have seen that with my own eyes. Another thing, back in 1963, I suppose everybody knows, we had a storm here at Barrow. The houses were erected around the front and we had this tremendous wind which we don't expect. The owners don't expect.



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they put their houses on the pilings, but that wind, the storm from the ocean, washed and moved those buildings back in. As a matter of fact, one house was all crumpled up due to that storm. And the third one, the ice break had been offshore right below the camp. I think when the ship builders built the ice breaker the chain that would hold the ship in any kind of winds -- that day the ice was coming in and hardly any wind, but there was tremendous current running north and the ice, that pressure, and that ice breaker was hung, anchored, and finally that chain broke from the ice. The current -- the wind, there was hardly any wind at the time. That's all I have to say that I have seen personally with my two eyes and what I have got in mind. Thank you.

MR. BROCK: Thank you, sir.

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STATEMENT OF MICHAEL JEFFERY, INDIVIDUAL, BARROW, ALSKA

MR. JEFFERY: My name is Michael Jeffery, J-e-f-f-e-r-y, Box 808, Barrow, and I'm speaking for myself only, but for identification purposes I've lived in Barrow nearly seven years and since last December I've been the Superior Court Judge in Barrow, and the jurisdiction is basically the entire North Slope Borough.

Because of the very heavy workload that I now have it's not possible for me to register for hearings or to read

Impact Statements; however, while I have been here I did



look at part of this Impact Statement dealing with social impacts, which is something basically that I deal with every day. And I wanted to comment on that. On page, Roman IV-117, the conclusion of the Impact Statement is that this proposal may have major region-wide impact on Inupiat leadership and cultural integrity. Significant stresses caused by the proposal on the Inupiat people's spirit, on their faith in traditional leadership, and on the organizations involved in their subsistence pursuits, may have a major impact on sociocultural systems. And I quess what that boils down to is a statement I would like to support, and that is, a major oil lease sale such as this would have additional major impacts on the life of the people here, from the point of view not only of their food and health but their spirit. And when one talks about these impacts, I suppose that most of what you've been hearing, of course, involves environmental issues and ice. And that's all extremely important to bring forward. But you also have to look at things like court statistics. If you look at the recent Alaska Court System report, the most recent one, you can see that in the Barrow Court it has, not the highest case-load in the State, but the highest increase in the case-loads in the State. Almost across the board, any type There has been a tremendous increase in case-load in the Barrow Court over the last few years. It's extremely



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significant, if you look at it and compare it with other courts in rural areas especially. And I can report, and I'm sure many of the people here in the room and also listening who live in Barrow can agree with this statement, that we are pushed at the moment right to the limit of the capability of our community to fairly deal with the caseload of, especially, criminal cases. We have currently summoned jurors daily for the next two and a half weeks for different misdemeanor trials. We have three to five major felony trials every month. This is in marked contrast to the situation in other areas of the state. And I think this is one place, a very concrete way that shows that the oil leasing activity is causing, as it comes out of the Impact Statement -- you people talk about social impacts, you talk about social dislocation, you talk about alcohol use and drug abuse, and what it comes down to is the health and safety of the people. And that's what I see every day in the courthouse. I've seen cases where alcohol is almost always involved, almost always the reason. Wonderful people are involved in the criminal justice system because they were drinking, or their family members were drinking, or they're the victim of someone who was drinking. And when I see something in an Impact Statement that says, well, this proposal that we have a lease sale in 1984 will add major impacts to the impacts that are already going on, I



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think it's very serious and I think it's the kind of thing that the people reviewing these proposals should consider very carefully. If we have more of these lease sales which threaten to outstrip the ability of the local people to deal with the kind of social changes that are coming on them, we can expect very serious dislocations in the future. lived here for seven years now on the North Slope, I have a very deep respect for the abilities of the local people and the quality of the life that they lead. And I urge the people making decisions about the sale to carefully consider these very serious impacts that might occur. quess at the level we're at today, I would urge -- I would very much support the assessment in the Impact Statement that says major impacts are likely to occur. And I would hope that more discussion could be given to these kinds of impacts, especially as they involve the criminal justice system. Thank you for the opportunity to testify. MR. BROCK: Thank you, sir. Is there anybody else who would like to testify? Sir? STATEMENT OF SVERRE PEDERSON, INDIVIDUAL, COLLEGE, AK

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STATEMENT OF SVERRE PEDERSON, INDIVIDUAL, COLLEGE, AK

MR. PEDERSON: My name is Sverre Pederson, my address
is P.O. Box 81332, College, Alaska. And I have been working
in the field of subsistence since about 1970, and I'm fairly
familiar with the literature that's been produced to date.

And I'm unhappy to report to you that the data base, the



quantitative data base that's being used in this Impact Statement on subsistence is sorely lacking information, as are the Impact Statements preceding this. Therefore, it's my opinion that it's virtually impossible to predict or continued oil and gas leasing along the coast, and for that matter onshore. So since we do not have quantitative data, we don't have data based on information to make any statements as to what present harvest levels are in Barrow and Nuigsut and Kaktovik of marine resources. That seems to be, to me, a very essential component one needs in order to make an assessment. I urge you to consider this very seriously and try to address it. And in the meantime, in the absence of the data, I think it's only prudent, at the minimum anyway, to delete the eastern and western areas that have been identified. I think it would actually be more suitable to delay the sale altogether until a better data base can be developed on the quantitative aspects of subsistence resource use along the coast, and to also fill in the other data gaps that have been pointed out here tonight. Thank you very much. MR. BROCK: Thank you, sir. Anybody -- sir? STATEMENT OF WALTER AKBIK, INDIVIDUAL, BARROW, ALASKA MR. AKBIK: My name is Walter Akbik. MR. BROCK: Would you spell that, sir? MR. AKBIK: A-k-b-i-k. I am going to be translated by



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James. (Statement by Mr. Akbik in Inupiat and translated by Mr. Nageak as follows)

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He says he's always happy when the oil MR. NAGEAK: employees come to listen and to talk. He participates when the oil companies are working and he also has worked with It's an exhilarating experience when you find oil on land. As an employee of GSI at (indiscernible), he and another person were able to just go 100 feet down and dis-The person that he was drilling with was surcover oil. prised and was even blushing that they could find gas and oil at such a level and it looked like gas that is 72 The effect of the drilling when they went through, when they took the drill out, the effect of the oil gushing out sprayed them very much. He has been a part of the exploratory crew with GSI and also the western crew culminating in finding the Prudhoe Bay oilfield. His guestion -or his comment would be that, why don't the oil people in the oil development conclude in the land area first and then it would be possible to go offshore. He is afraid that the effect of the offshore development would affect the animals that we live on. He knows because he has worked with the GSI people. He knows that there are areas of land that they have marked where there's some oil possibilities. worked with the GSI people for two years as a quide he knows where the designated areas for oil drilling are but now they



haven't gone to those areas to drill for oil. After listening to the people talking here this evening he knows that they are people that are talking -- their comments are the They have talked the truth. He's concerned about truth. the oil development and oil leasing on the offshore. likes to lead the animals and the whales and the muktuk and all the other animals of the sea. He knows that the statements being made that state development will affect the animals which we live off, he knows that those statements are true. If they are going to put an oil rig on the ocean down there, he knows that it's going to take time for them to put one down. And he knows that the oil rig isn't just going to be just put there, it's going to take time to put it together. It's not going to be the same experience as putting an oil rig in an area where there's ice (indiscernible), there's going to have to be some other form of employment to set up an oil rig where the ice and the current are present. He said he feels he doesn't want to talk long but he just wanted to let you know his concerns. MR. BROCK: Thank you, sir. STATEMENT OF EMMETT MORREY, INDIVIDUAL, ANAKTUVUK PASS MR. MORREY: My name is Emmett Morrey. MR. BROCK: Would you spell that, please, sir? MR. MORREY: Emmett Morrey, M-o-r-r-e-y. MR. BROCK Address?



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MR. MORREY: Anaktuvuk Pass.

MR. BROCK: From where?

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MR. MORREY: Emmett Morrey from Anaktuvuk Pass.

MR. BROCK: Anaktuvuk Pass, thank you.

MR. MORREY: (Statement in Inupiat and translated by Mr. Nageak as follows)

He says that he doesn't know much about MR. NAGEAK: the sea animals but he wants to say something about -- he wants to say something because he has worked with the Naval Arctic Research Laboratory taking care of the animals, the Having worked at NARL taking care of two seals, the people who were responsible for the seals decided that they would put fresh water and sprinkle the fresh water with the table salt and that's how they wanted those seals to live. But he said he told them, why don't you go out and get the water out of the ocean which they have come from, but they didn't listen so they made them live in this fresh water with salt and after awhile the seals got sick, their eyes were infected, and they finally died. In his thinking, and being a thinking person, if the animals of the sea are going to survive -- I quess their environment has to be affected, but if the environment in which the sea animals live is affected by other development, the food system that they have -- it would really have an effect on the animals of the sea. The people that have come up here to listen to the



comments of the people, I'm sure that they have not heard just once but many times about the effect on the animals by what's going to happen here. Even though you have heard the stories, the testimony from other people, the same things, you just keep on coming. He knows that you have heard that we care and don't want anything to happen to our animals. And even though he's an inland Inupiat from Anaktuvuk Pass, he feels that, you know, it affects them. Because when he was a young man and his father netted fish under the ice, maybe one-foot ice, and he has seen the fish that are under the ice, he could see them through the ice and his father would take a piece of willow and hit the ice and as soon as that ice is hit the fish under the ice just roll belly-up. And he knows that the equipment that is going to be used here for exploration in the ocean makes noise.

Thank you.

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MR. BROCK: Thank you. Do we have anybody else who would like to testify? Let's see if anybody else wants to go first, Tom.

MR. NAGEAK: I would like to say something.

STATEMENT OF JAMES NAGEAK, INDIVIDUAL, BARROW, ALASKA

MR. NAGEAK: I would like to say that what you have heard is something from within, and I would like to reiterate their comment about how come there was such activity through



the barges this summer? You know, you are listening for comments and already the oil companies are putting together a vast amount of equipment up here. The comment that I heard was that this summer was the biggest barge activity by the oil companies, even bigger than when Prudhoe Bay was coming. And so, what effect is that kind of activity going to have on a decision that the Department of Interior makes? You know, we say all the reasons, we tell you it's going to affect our lifestyle, it's going to do all of these things, but darn it, you know, the oil companies are getting ready already, even while you guys are listening to us. voice are you going to listen to, the oil companies that provide -- you know, they are going to say to you, okay, we have all of this equipment up there already and here you are saying to us, delay five years, or no sale at all. know! What good is it? That's my concern. Are you going to listen to 8,000 Inupiat as opposed to billions of dollars that the oil companies are spending to put equipment up here already, even before June of '84? They are getting That's all I have. ready for that. MR. BROCK: Thank you.

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MR. NAGEAK: Put that into your minds when you are making decisions on this, the Department of Interior is not going to be sidetracked by the comments that they are going to hear, we have all this equipment up here, gee, you are



expecting us to take it back down to Seattle?

2 MR. BROCK: Tom!

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STATEMENT OF THOMAS ALBERT, NORTH SLOPE BOROUGH, BARROW

DR. ALBERT: My name's Tom Albert and I was speaking a little bit earlier but I have a few other things that maybe would seem appropriate. I know it's getting a little late but I don't think that's any excuse for us to stop considering some of these matters. But I think it's fair to say that most people in this room, their eyes are beginning to bother them a little bit. And I want to talk a little bit about bowhead whale eyes, I want to bring it home a little bit by reminding us what maybe is happening to ourselves, our eyes may be getting a little heavy and may be even burning a little bit because of the smoke in here, which is a very mild irritant. If you or I, or one of our children for instance, were going to be immersed in a tank of water that had crude oil spilled on top of it, especially recently spilled crude oil, what would probably be one of the last things you'd tell that person before they had to dive in there? Be sure you keep your eyes shut. Now, we've all had the experience of getting an irritant under the eyelid, such as an eyelash, a piece of sand, dust, whatever. And even though it's very small it calls itself to our attention very quickly. The eye of the bowhead, as it may be affected by oil contact, gets one brief mention on the



top of page Roman number IV-93 and is immediately dismissed. But one of the reasons for worrying about this is that before you or anyone were to maybe pass off oil effects on bowhead whale eyes as maybe being inconsequential, what do you think it would be on your eye if someone were to say, lean back, pull your eyes apart, I just want to put one drop of crude oil in there, you know, don't worry about it, okay? Why they would have to strap you down to get it done. guess is that the same thing will happen to these animals. One study was done involving ring seals that we're all well aware of in which a very minor amount of oil contact coupled with a couple of days in oil-free water resulted in what appeared to be good healing of these animals. The reason for making sort of a deal out of this is that the bowhead whale, just as it has this unfortunate little channel in the stomach, and these unfortunate lesions populated by bacteria on the skin, has another problem, and that's associated with its eye. The conjunctival sac of the eye of the bowhead whale is very large. And maybe a lot of folks aren't well acquainted with the limits of the conjunctival sac, but we can all see this in ourselves by standing in front of a mirror, pulling down your lower eyelid and seeing that pink membrane, which is the conjunctival. And you can see the limit of it, it goes under the eyelid and in us, and in most animals, is very small, so if you get something under the



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eyelid it's not going to go very far. The bowhead, unfortunately, and for reasons unknown to me, that's for sure, has a very extensive conjunctival sac. So if you were to, for instance, put your finger in a fit of rage, or something like this, under your eyelid and try to push it towards the back you could only go about a half-inch or three-quarters of an inch, it would not go around the rear of the eye. But if you were to try to do this to a bowhead whale, if it would accommodate you in this manner, the conjunctival sac goes about two-thirds of the way around the animal's eye, for reasons not known to me. But the fact is, that if an irritant gets under the eyelid of this animal rummage around, so to speak, over a very large surface of this animal's eye. And I don't think it's realistic to think that it's going to jump out by magic. I think that any irritant, if it's under this animal's eyelid, is going to be hard to dislodge and may very well wreak havoc on this poor animal's eye. So there are several anatomical characteristics of this animal, I think, that lend it to really severe problems. Before I get onto seismic effects, I just want to go over this just one more time about contact, oil I think the eye, the structure of the eye, the structure of the conjunctival sac, will lend itself to The skin with these lesions on which are populated by bacteria, I think oil will stick to these things, which



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in itself may be bad, but with the presence of bacteria it may be disastrous. Baleen -- this report is taken up with the fouling of baleen as an end in itself. I don't think that's the problem. I think that's bad enough, but the real problem is what's going to happen when the animal ingests the oil. And I had some people tell me that the animal probably won't even swallow it. But I would ask you, what would you do if you had some oily or sticky or whatever stuck to the inside of your teeth or the roof of your mouth such as peanut butter? You'd dislodge it with your tongue, that's how we all do it. And there's no reason to suspect that this animal won't manipulate its tongue to get at whatever this stuff is that's bothering its baleen and the roof of its mouth. We would have enough sense, maybe, to spit this out. A lot of animals don't. It's very common in animals for them to get rid of things in the mouth that they don't like by swallowing it. I think these animals are going to swallow a lot of oil. Whatever's on their baleen I think they're going to swallow. And then we have this problem with the hair ball, which I hope you feel is maybe not unrealistic. The effects of oil, ingested oil, on an animal are given very short shrift in this document. The one very clear study on the lethality of ingested oil was done by some folks from Canada on polar bears. And that is treated a little bit in here but not in the bowhead



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section. But anyway, to get on to something else that's of real interest to people sometime, or at least me anyway, is this issue of seismic boat disturbance. And it's treated in here on pages Roman number IV-88 and 89 for a total of maybe one page, or something along that order. And it goes through the effects of some of these studies that have been done and devotes a paragraph or so to the work Reeves and Don Ljungblad and one other person did last fall when they observed the behavior of bowhead whales in relation to seismic boats. Now, that study, when it was in the proposal stage, we had our North Slope Borough Science Advisory Committee review it and it was found to be severely deficient. Be that as it may, okay the study was done, the results have now come out and are in this report. For any of you who may really be interested in the effects of geophysical noise on bowhead whale, rather than dwelling on that one little paragraph, I urge you to read the study. If you work for the Minerals Management Service, the Borough did send comments to Al Powers, about eight pages of com-This report is now out and it should be quoted in here because I'm sure it was in draft stage fully available. The meat of it, so to speak, is reported to some extent because they presented the data at the bowhead biology conference. Well anyway, on page 88 it mentions or refers to it as, "Whales seen as little as nine kilometers from active



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geophysical operations were not observed vacating the area or displaying avoidance behavior." Then it goes on to say some other results did suggest short-term changes, but it makes no mention. In this report, if you look at it, at the conclusion of results section, which is very interesting, the authors do what I think they should do. And that is, point out what they view to be their most important finding. And they point out, "Our most significant finding is that the behavior of bowhead whales in the presence of seismic sounds -- in this one instance measuring time spent on the surface -- is different than in the absence of seismic sound. Maybe they got all their data together from last fall and looked at it and this one thing turned out to be significantly different, time spent at the surface. regard this as their most significant finding. three pages they enter into a discussion of their results, a three-page discussion of the results. Not once, not one single mention -- not one single mention is made of this significant result. And one might wonder why. Do you know what the distance was when they observed -- the day they got the best data was September 24th. When they got some very good data absent seismic sound they were flying around some whales watching them; there were no seismic sounds present because they had a sound buoy in the water and they were counting respirations, one thing and another, and then



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all of a sudden the seismic boats started up, they got another series of observations on these animals, but their behavior now changed. And in doing statistical evaluation it was statistically different, and they report that. you know what the distance from the geophysical boat to the whales was, it was 96 miles. They go to the trouble in this EIS of pointing out that there was no avoidance noted at nine kilometers but somehow forget to point out that a significant behavioral change was noted at 96 miles. that being even-handed or not? I don't think it is. think whoever prepared this section needs to go back and look at the data. And if you're going to put in, you know, one thing where there's no effect noted at nine kilometers, or something like that, and leave out the investigator's most significant finding at 96 kilometers -- 96 miles -anyway, to sum it up, the entire effects thing, this noise thing and the oil spill effects on this animal, the bowhead, in my view, really just doesn't do justice to the data that are available. And if you folks really have a significant input into making decisions on this stuff, I'll urge you to maybe remember a few of these things. No matter how big that animal is, if it's 50 feet long and weighs 55 tons, everything it eats, baleen hairs, oil globs, it doesn't matter what it is, it's got to through a one and a half-inch diameter tube about 12 inches long, which is commonly known



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as the third chamber of the stomach. But that's all right, 1 because the nature of this animal, it only eats things that 2 are half-inch to an inch and a half long, very little small 3 shrimp-like critters. So I would just urge you, if you have 4 significant control over the final rendition of this docu-5 ment that's going to be coming out, have these sections 6 revised and brought up to maybe a little bit more realism. 7 MR. TAALAK: Dr. Albert! 8 DR. ALBERT: Thank you. 9 MR. BROCK: Thank you, sir. 10 Dr. Albert, before you leave may I ask a MR. TAALAK: 11 question? 12 Why don't we close the hearing and then MR. BROCK: 13 you can go ahead and ask the question, sir? 14 This is very important, Mr. Brock. MR. TAALAK: 15 MR. BROCK: The purpose of the hearing is not to ask 16 questions of the witnesses, so if after we close the hearing 17 you wish.... 18 It is the consistent with the villages --MR. TAALAK: 19 it is consistent with the hearing tonight..... 20 MRS. AHVAKANA: Out of order, you guys. 21 MR. TAALAK: Well, Dr. Albert! 22 Well, I guess we've got to do whatever.... DR. ALBERT: 23 MR. BROCK: Afterwards we'll be glad to go informal 24 and we'll be glad to discuss this, but for the purpose of 25



the hearing I think we have to -- we promised everybody that they would not be questioned 2 MR. TAALAK: I want it. 3 MR. BROCK: So, let's close the hearing record. We'll 4 go off the record and we'll be glad to discuss anything informally, if Dr. Albert wants to answer questions. 6 can't ask any questions from the floor. Okay, at this 7 point.... 8 DR. ALBERT: Mr. Chairman, I surely don't mind, so if 9 it's your wish..... 10 MR. BROCK: That's the rules for conducting the hearing 11 sir. So at this point, it's 12:30 and the hearing is 12 closed. 13 (Off record) 14 ********* 15 HEARING CLOSED ***** 16 17 18 19 20 21 22 23 24 25



Alaska Eskimo Whaling Commission

Box 570 Barrow, Alaska 99723

October 24, 1983

AEWC STATEMENT ON DIAPIR FIELD

Industrial clean up efficient has not improve since January 28, 1977 in Buzzards Bay, Massachusettes. Oil spill which is only 20,000 gals. recovered from 81,000 gals. spill; Now this is in Massachusettes not the Arctic. This summer there was suppose to be a demonstration on oil spill response, but the weather did not cooperate in the Arctic, so we will expect the industry to have a oil spill on a calm day. Clean up on oil spill is from Nil to 24% effective clean up in mild climate. Here in the Arctic oil spill will be next to impossible to clean up as proven by the oil industry in their failure to do a demonstration oil spill clean up.

"The loss of a communication channel and the loudness of the ship noises might well result in the dispension of normally herding marine mammals and may interfere with normal reproduction" p. 275 of "The Question of Sound from Icebreaker Operations": the proceedings of a workshop, Feb. 23 & 24, 1981 Toronto, Ontario. Arctic Pilot Project was stopped because the noise pollution was the most eminent danger along with the oil spill.

We have told the government and the oil industry over and over that the Diapir Field is a critical habitat of the bowhead whale and other marine mammals. If the bowhead is really in a critical endangered species list than I would be willing to stop hunting the animal if the oil industry will stop their off-shore oil activities.

The United States has no jurisdiction and no claim in the Arctic. (United States of America vs. Mario Saime Escamilla, Congressional Record 97th Congress, 2nd session Dec. 9, 1982 and the law of the sea of the Arctic.) So this lease sale should be at least deleted or delayed and we know federal government will loose billions and billions when the Inupiags know that the Diapir Field is larger than North Sea Fields.

As the Commission member of the Alaska Eskimo Whaling Commission I feel this should help your staff in making it clear that this lease is a direct threat to the will being of the Inupiags and animals of the Arctic.

Percy Nusunginya, Commissioner Alaska Eskimo Whaling Commission